

November 9, 2001

REMARKS

The official action has been carefully considered, and the Examiner's comments are duly noted. Reconsideration of this application is respectfully requested.

Reference is made to paragraphs 1 and 2 of the official action, and the rejection of claims 1 and 2 under 35 USC 102 (e).

The Examiner rejected claim 1 as being anticipated by Widergen et al (U.S.P. 5,890,064). It is submitted that according to the applicants' understanding, the Examiner may have misapplied Widergen because the method for constructing a private network disclosed in Widergen and this Application are fundamentally different.

Prior to addressing the rejections on art, a brief review of the applicant's invention and the cited reference is appropriate. The present invention relates to a method 'for constructing a WVPN (Wireless Virtual Private Network) in a CDMA communication system which makes it possible to use a mobile communication network as a private network of a subscriber. That is, in the present invention, the private network service is provided through existing mobile telecommunication systems without a separate private network system. In stark comparison, Widergen discloses

November 9, 2001

a system for integrating a private mobile telecommunications system into a public mobile telecommunications network. Specifically, Widergen refers to a solution to use public cellular networks together with private telephony networks to provide roaming between the private and public network. Widergen lacks reference to providing private networking service with the mobile telecommunication systems.

Turning now more specifically to the rejection of Claim 1, the Examiner insisted that Widergen discloses a method for constructing a WVPN for a CDMA system comprising a first step for registering a private network group *and* extension number to the SCP (110) and judging whether a call by a certain calling subscriber corresponds to an extension number or a MDN (Mobile Directory Number) when a certain calling subscriber calls a certain receiving subscriber of the same group as the calling subscriber(col. 3, lines 26-30; col. 4, lines 44-60) of the present invention. Although Widergen generally refers to a computer supported telephony functions, such as screening based on the calling number, Widergen fails to teach registering a private network group and extension number to the SCP. In order to provide a private network service through the existing mobile telecommunication network, an MSC acts as a PBX

(Private Branch Exchange) of a private network. A subscriber of a mobile telecommunication service can use a virtual private network service only by registering a private network group information and extension number to the SCP in the MSC. Unlike the Applicant's invention, Widergen just mentions registering the fixed extensions as CMTs in the PLMN SCP database to provide private to public system seamless handover. That is, the virtual groups are registered to the SCP in the present invention, whereas only the fixed extensions (PN) are registered in the SCP database to be converted to a MIN (Mobile Identification Number) in the Widergen.

The Examiner insisted that Widergen discloses a method for constructing a WVPN for a CDMA system comprising a second step for constructing a mobile communications network using the MDN in the case that as a result of the first step the call by the calling subscriber corresponds to the MDN and constructing a WVPN in the case that the call by the calling subscriber corresponds to the extension number. In the present invention, when a subscriber of a mobile telecommunication service calls the extension number using his mobile phone, WVPN is constructed within, cellular system. Thus, the call will be routed . by the same call routing path with normal call voice traffic within a cellular system.

November 9, 2001

In comparison, when a CMT (Corporate Mobile Terminal) calls the PN of another CMT of wireless office system, the PN is converted to a MIN (Mobile Identification Number), then the MIN number is translated into a roaming number in HLR in Widergen. in this case, the call will be routed to GMSC (cellular system) and then will be routed back to WO Gateway via PSTN and PTN and, then to wireless office system.

The present invention allows mobile subscribers to use the same mobile stations as extension terminals when operating in the corporate environment. This remarkable effect of the present invention cannot be accomplished by Widergen.

Regarding claim 2, the Examiner states that Widergen discloses the method of claim 2 at col. 7, lines 55 col. 8, line 67. After careful review the applicants disagree with the Examiner's statement and observe that Widergen only describes roaming calls between private telephony networks and public cellular networks.

Widergen neither discloses nor suggests providing private network service with a mobile telecommunication network set forth in claim 1, thus claim 1 is not anticipated by Widergen. Dependent claims 2 - 3

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YOO.PN0321/PHOEN.01-HU-180

November 9, 2001

incorporate features of claim 1 and are thus deemed novel in view of
Widergen.

It is noted that the subject matter of claim 3 is allowable.

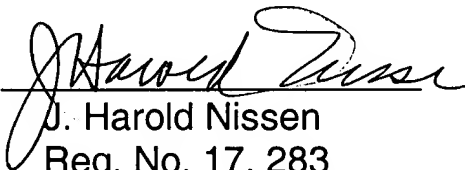
A new claim 4 has been added, and this is a substantial combination
of claim 3 and claim 1 on which it is dependent.

In the event that a charge is to be made relative to this subject patent
application, then same may be charged to attorney's Deposit Account No.
10-0100.

Early and favorable action is solicited.

Respectfully submitted

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